

In re of: BUHLER2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for contact-less measurement of distances ~~(10, 20)~~ in multiple directions of an electrically conductive body, ~~(2, 22) comprising wherein said device comprises~~ a plurality of inductive elements ~~(1, 4, 7)~~, characterized in that wherein at least one ~~(1)~~ of the plurality of inductive elements ~~(1, 4, 7)~~ is placed essentially around the body ~~(2)~~, and ~~in that wherein~~ the other inductive elements or other magnetic field sensors ~~(4, 7)~~ are provided in the vicinity of said one inductive element ~~(1)~~.

2. (Currently Amended) The device according to claim 1, wherein the inductive elements ~~(1, 4, 7)~~ are coils, especially printed coils.

3. (Currently Amended) The device according to claim 2, wherein the other coils ~~(4, 7)~~ are single coils placed at

different angular positions around the body ~~(2)~~ and said one coil ~~(1)~~ is wound around the body ~~(2)~~.

4. (Currently Amended) The device according to claim ~~2 or 3~~, wherein a ~~high~~ high-frequency current is fed to said one coil ~~(1)~~ and an output signal from the other coils ~~(4, 7)~~ is detected.

5. (Currently Amended) The device according to ~~one of claims 1 to 3~~ claim 1, wherein a ~~high~~ high-frequency current is fed to an inductive element ~~(1)~~ wound around the body ~~(2)~~, wherein said frequency is high enough so that a substantial part of the generated magnetic field cannot enter the conductive body ~~(2)~~.

6. (Currently Amended) The device according to ~~any preceding~~ claim 2, wherein the other coils ~~(4, 7)~~ are provided in an even number and wherein opposite coils are differentially coupled.

7. (Currently Amended) The device according to ~~any preceding~~ claim 2, wherein the other coils ~~(4, 7)~~ are provided with capacitances in parallel to form resonant circuits.

8. (Currently Amended) The device according to ~~any preceding claim 1~~, wherein the body ~~(2)~~ comprises a flange part ~~(22)~~ and wherein further single coils ~~(7)~~ are placed at different angular positions around the body ~~(2)~~ in vicinity of the surface of the flange part ~~(22)~~.

9. (Currently Amended) Use of the device according to ~~any of claims 1 to 8~~ claim 1 for angle detection of a joystick, a steering gear, a rotor of a motor, or computer input means.

10. (Currently Amended) Use of the device according to ~~any of claims 1 to 8~~ claim 1 for controlling the position of a magnetic bearing.